

FIG. 1

The nucleotide coding sequence (SEQ ID NO:1) and amino acid sequence (SEQ ID NO:2) of bovine lysozyme

```
atg aag gct ctc gtt att ctg ggg ttt ctc ttc ctt tct gtc gct
M  K  A  L  V  I  L  G  F  L  F  L  S  V  A

gtc caa ggc aag gtc ttt gag aga tgt gag ctt gcc aga act ctg
V  Q  G  K  V  F  E  R  C  E  L  A  R  T  L

aag aaa ctt gga ctg gac ggc tat aag gga gtc agc ctg gca aac
K  K  L  G  L  D  G  Y  K  G  V  S  L  A  N

tggttg tgg acc aaa tgg gaa agc agt tat aac aca aaa gct
W  L  C  L  T  K  W  E  S  S  Y  N  T  K  A

aca aac tac aat cct agc agt gaa agc act gat tat ggg ata ttt
T  N  Y  N  P  S  S  E  S  T  D  Y  G  I  F

cag atc aac agc aaa tgg tgg tgt aat gat ggc aaa acc cct aat
Q  I  N  S  K  W  W  C  N  D  G  K  T  P  N

gca gtt gac ggc tgt cat gta tcc tgc agc gaa tta atg gaa aat
A  V  D  G  C  H  V  S  C  S  E  L  M  E  N

gac atc gct aaa gct gta gcg tgt gca aag cat att gtc agt gag
D  I  A  K  A  V  A  C  A  K  H  I  V  S  E

caa ggc att aca gcc tgg gtg gca tgg aaa agt cat tgt cga gac
Q  G  I  T  A  W  V  A  W  K  S  H  C  R  D

cat gac gtc agc agt tac gtt gag ggt tgc acc ctg taa
H  D  V  S  S  Y  V  E  G  C  T  L  *
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FIG. 2 (sheet 1 of 4)

Nucleotide sequence of the plasmid p1044-BolLys

(extends from nucleotides 5767 – 6211 of the viral vector; the sequence encoding bovine lysozyme, including the stop codon, is inserted as a PacI-XhoI fragment and is shown in lower case letters, underscored)

GTAATTTTAC AACAAATTACC AACAAACAACA AACAAACAGAC AACATTACAA TTACTATTTA CAATTACAAT GGCATACACA CAGACAGCTA  
 CCACATCAGC TTGTGCTGAC ACTGTCCGAG GAAACAACCTC CTGGTCAAT GATCTAGCAA AGCGTCGTCT TTACGACACA GCGGTTGAAG  
 AGTTTAAACG TCGTGACCG AGGCCAAGG TGAACCTTTC AAAAGTAATA AGCAGGAGC AGACGCTTAT TGCTACCCGG GCGTATCCAG  
 AATTCCAAAT TACATTTTAT AACACGCAAA ATGCCGTGCA TTCCGCTTGCA GGTGGATTGC GATCTTTAGA ACTGGAATAT CTGATGATGC  
 AAATCCCTTA CGGATCAITG ACTTATGACA TAGGCGGGA TAGGCGGGA TTTTGCACTG CATCTGTTCA AGGACGAGC ATATGTACAC TGCTGCATGC  
 CCAACCTGGA CGTTCGAGC ATCATGCGG ACATGCGG ACAGAGGCA GAAAGACAGT ATTGAACAT ACCTTTCTAG GCTAGAGAGA GGGGGGAAA  
 CAGTCCCCAA CTTCCAAAAG GAAGCATTTG ACAGATACG ACAGATACG AAAAACTCTT GAAAGCGCTG TCTGTACAA TACTTTCCAG ACATGCGAAC  
 ATCAGCCGAT GCAGCAATCA GGCAGAGTGT ATGCCATTGC GCTACACAGC ATATATGACA TACCAGCCGA TACGATCCAG GCGGCACTCT  
 TGAGGAAAAA TGTCGCGGAT TGCTATGCCG CTCTCCACTT TTTTGCACTA CTCCGAGAAC CTGCTTCTTG AAGATTCTAG GACGAAATCA  
 ACGCGTGTTC TTCCGCGGAT GGAGACAAGT TGACCTTTTC AGAGTTTAC ATGAGGAGT TTAATTACTG TCAATGTTAT ACCTGGTTTT  
 TTAAGTATGT GTGCAAAACT TACTTCCCGG CCTCTAATAG AGAGTTTAC ATGAGGAGT AAAAGTCTAG ATAGTGAGCA GTTTTATACT GCAATGGAAG  
 GTAAGTTTTT TAGAATAGAT ACTTTTCTTT TGACAAAGG TGTCGCAACG CGAGACAATC CTCCCTGAGG ATTCATCATC AGTCAATTAC TGGTTTCCCA  
 ACGCATGGCA TTACAAAAAG ACTCTTGCAA TGTCGCAACG CGAGACAATC CTCCCTGAGG ATTCATCATC AGTCAATTAC TGGTTTCCCA  
 AAATGAGGGA TATGGTCATC GATCCATTAT TCGACATTTT TTTGGAGACT TTTGGAGACT TTTGGAGACT TTTGGAGACT TTTGGAGACT  
 TCGTGTTCAC AGTGCTTAAC CACATTCGAA CATACGAGG GAAAGCTCTT ACATACGCAA ATGTTTTGTG CTTCGTCGAA TCGATTGAT TCGAATCGAT  
 CGAGGGTAAT CATTAAACGGT GTGACAGCGA GGTCCGAATG GATGTGGAC AAATCTTGT TACAATCTTT GTCCATGACG TTTTACCTGC  
 ATACTAAGCT TGCCGTTCTA AAGGATGACT TACTGATTAG CAAGTTTAGT CTCCGTTCTG AACCGGTGTG CCAGCATGTG TGGGATGAGA  
 TTTTCGCTGC GTTTGGGAAC GCATTTTCCCT CCGTGAAAGA GAGGCTCTTG AACAGGAAAC TTATCAGAGT GCGAGCGGAC GCATTAGAGA  
 TCAGGGTGC TGATCTATAT GTGACCTTCC ACGACAGATT AGTGACTGAG TACAAAGGCTT TACGAGCAT CTGTGGCAT GCGTGGCTTT GACATTAGGA  
 AGAAGATGGA AGAAACGGA GTGATGTACA ATGCACCTTC AGAATTATCG GTGTAAAGG GTGTGACAA ATTCGATGTT GATGTTTTTT  
 CCCAGATG CCAATCTTTG GAAGTTGACC CAATGACGGC AGCGAAGGTT ATAGTCGCGG TCATGAGCAA TGAGAGCGGT CTGACTCTCA  
 CATTGAACG ACCTACTGAG GCGAATGTTG CGTAGCTTT ACAGGATCAA GAGAAGGCTT CAGAAGTGC CATGTTAGTT ACCTCAAGAG  
 AAGTTGAAGA ACCGTCCATG AAGGTTTCTG TGCCGAGAGG AGAGTTACAA TTAGTGGTC TTGCTGGAG TCATCCGGA TCCTCCTATT  
 CTAAGAACGA GGAGATAGAG TCTTTAGAGC AGTTTTCATAT TGCCGAGAGG AGAGTTACAA TTAGTGGTC TTGCTGGAG TCATCCGGA TCCTCCTATT  
 CCGGTCGGAT TAAAGTTTCA CAAATGAAAA ACTTTATCGA TAGCCTGGTA GCATCACTAT CTGCTCGGT GTGGAATCTC GTCAAGATCC  
 TCAAGATAC AGCTGCTATT GACCTTGAAA CCCGTCAAAA GTTTGGAGTC TTGGATGTTG CATCTAGGAA GTGGTTAATC AAACCAACGG

FIG. 2 (sheet 2 of 4)

CCAAGAGTCA	TGCATGGGGT	GTTGTTGAAA	CCCACGCGAG	GAAGTATCAT	GTGGCGCTTT	TGGAATATGA	TGAGCAGGGT	GTGGTGCACAT
GCGATGATG	GAGAAAGATA	GCTGTTAGCT	CTGAGTCTGT	TGTTTATTC	GACATGGCGA	AACTCAGAAC	TCTGCGCAGA	CTGCTTCGAA
ACGGAGAACC	GATGTCAGT	AGCGCAAAGG	TTGTTCTTGT	GGACGGAGTT	CCGGCTGTG	GAATAACCAA	AGAAATCTTT	TCCAGGGTTA
ATTTTGATGA	AGATCTAATT	TTAGTACCTG	GGAAGCAAGC	CGCGAAATG	ATCAGAAGAC	GTGCGAATTC	CTCAGGGANT	ATTGTGGCCA
CGAAGGACAA	CGTTAAACC	GTTGATTCTT	TCATGATGAA	TTTTGGGAAA	AGCACACGCT	GTGAGTTCAA	GAGGTATTC	ATTGATGAAG
GGTTGATGTT	GCATACCTGT	TGTGTTAATT	TTCTTTGGC	GATGTCATTG	TGCGAAATG	CATATGTTTA	CGGAGACACA	CAGCAGATTTC
CATACATCAA	TAGAGTTTCA	GGATTCCCGT	ACCCCGCCCA	TTTTGCCAAA	TTGGAAGTTG	ACGAGGTGGA	GACACGCGA	ACTACTCTCC
GTTGTCCAGC	CGATGTCACA	CATTATCTGA	ACAGGAGATA	TGAGGGCTTT	GTGATGAGCA	CTTCTTCGGT	TAAAAAGTCT	GTTTCGCAGG
AGATGGTCGG	CGGAGCCGCC	GTGATCAATC	CGATCTCAA	ACCTTGCAAT	GGCAAGATCC	TGACTTTTAC	CCAATCGGAT	AAAGAAGCTC
TGCTTTCAAG	AGGGTATTCA	GATGTTTACA	CTGTGCATGA	AGTGCAAGGC	GAGACATACT	CTGATGTTTC	ACTAGTTAGG	TTAACCCTTA
CACCGGTC	CATCATTTGA	GGAGACAGCC	CACATGTTTT	GGTCGCAATTG	TCAAGGCACA	CCTGTTCCGT	CAAGTACTAC	ACTGTTGTTA
TGGATCCCTT	AGTTAGTATC	ATTAGAGATC	TAGAGAAACT	TAGCTCGTAC	TTGTTAGATA	TGTATAAGGT	CGATGCGAGA	ACACAATAGC
AATTACAGAT	TGACTCGGTG	TTCAAAGGTT	CCAATCTTTT	TGTTGCAGCG	CCAAAGACTG	GTGATATTTTC	TGATATGCAG	TTTTACTATG
ATAAGTGTCT	CCCAGGCAAC	AGCACCATGA	TGAATAATTT	TGATGCTGTT	ACCATGAGGT	TGACTGACAT	TTTCATTGAAT	GTCAAAGATT
GCATATTGGA	TATGTTCTAAG	TCTGTTGCTG	CGCTTAAGGA	TCAAAATCAA	CCACTAATAC	CTATGTTACG	AACGGCGGCA	GAATATGCCAC
GCCAGACTGG	ACTATTGGAA	AATTTAGTGG	CGATGATTAA	AAGAAACITTT	AACGCACCCG	AGTTGTTCTGG	CATCATTTGAT	ATTGAAAAATA
CTGCATCTTT	GGTTGTAGAT	AAGTTTCTTT	ATAGTTTATTT	GCCTTAAAGAA	AAAAGAAAAAC	CAAAATAAAAA	TGTTTCTTTG	TTCAGTATAG
AGTCTCTCAA	TAGATGGTTA	GAAAAGCAGG	AACAGGTAAC	AATAGGCCAG	CTCGCAGATT	TTGATTTTGT	GGATTTGCCA	GCAGTTGATC
AGTACAGACA	CATGATTAAA	GCACAACCCA	AACAAAAGTT	GGACACTTCA	ATCCAAACCG	AGTACCCGGC	TTTGCAGACG	ATTGTGTACC
ATTCAAAAAA	GATCAATGCA	ATATTCCGCC	CGTTGTTTAG	TGAGCTTACC	AGGCAATTAC	TGGACAGTGT	TGATTCGAGC	AGATTTTGT
TTTTTCACAAG	AAAGACACCA	GCGCAGATTG	AGGATTTCTT	CGGAGATCTC	GACAGTCAATG	TGCCGATGGA	TGCTTTGGAG	CTGGATATAT
CAAAATACGA	CAAACTCTAG	AATGAATTCC	ACTGTGCAGT	AGAATACGAG	ATCTGGCGAA	GATTTGGGTTT	CGAAGACTTC	TTGGGAGAG
TTTGGAAACA	AGGCATAGA	AAGACCACCC	TCAAGGATTA	TACCGCAGGT	ATAAAAACTT	GCATCTGGTA	TCAAAGAAAG	AGCGGGGACG
TCACGACGTT	CATTGGAAAC	ACTGTGATCA	TTGCTGCATG	TTTGGCCTCG	ATGCTTCCGA	TGGAGAAAAAT	AATCAAAGGA	GCCTTTTGGG
GTGACGATAG	TCTGCTGTAC	TTTCCAAAGG	GTTGTGAGTT	TCCGGATGTG	CAACACTCCG	CGAATCTTAT	GTGGAATTTT	GAAGCAAAAC
TGTTTAAAAA	ACAGTATGGA	TACTTTTGGG	GAAGATATGT	AATACATCAC	GACAGAGGAT	GCATTGTGTA	TTACGATCCC	CTAAAGTTGA
TCTCGAAACT	TGGTGTAAA	CACATCAAGG	ATTGGGAACA	CTTGGAGGAG	TTTCAAGAGG	CTCTTTGTGA	TGTTGCTGTT	TCGTTGAACA
ATTGTGCGTA	TTACACACAG	TTGGACGACG	CTGTATGGGA	GGTTTCATAAG	ACCGCCCTC	CAGGTTCTGT	TGTTTATAAA	AGTCTGGTGA
AGTATTGTGC	TGATAAAGTT	CTTTTGTAGAA	GTTTGTTTAT	AGATGGCTCT	AGTTGTTAAA	GGAAAAGTGA	ATATCAATGA	GTTTATCGAC
CTGACAAAAAT	GGAGAAGAT	CTTACCGTCG	ATGTTTACCC	CTGTAAAGAG	TGTTATGTGT	TCCAAAGTTG	ATAAAATAAT	GGTTTCAATG
AATGAGTCAAT	TGTCAGGGGT	GAACCTTCTT	AAAGGAGTTA	AGCTTATTGA	TAGTGGATAC	GTCTGTTTAG	CCGGTTTGGT	CGTCACGGGC
GAGTGGAACT	TGCCTGACAA	TTGCAGAGGA	GGTGTGAGCG	TGTGCTGTTG	GGACAAAAGG	ATGGAAAAG	CCGACGAGGC	CATTCTCGGA

FIG. 2 (sheet 3 of 4)

TCTTACTACA CAGCAGCTGC AAAGAAAAGA TTTCAGTTCA AGTCGTTCC CAATTATGCT ATAACCACC C AGGACGCGAT GAAAAACGTC  
 TGGCAAGTTT TAGTTAATAT TAGAAATGTG AAGATGTGAG CGGTTTCTG TCCGCTTCT CTGGAGTTG TGTCGGTGTG TATTGTTTAT  
 AGAAATAATA TAAATTTAGG TTGAGAGAG AAGATTACAA ACCTGAGAGA CGGAGGCCC ATGGAACCTTA CAGAAGAAAT CGTTGATGAG  
 TTTCATGGAAG ATGTCCTTAT GTCGATCAGG CTTGCAAGT TTCGATCTCG AACCGGAAAA AAGAGTGATG TCCGCAAAAG GAAAAATAGT  
 AGTAGTGATC GGTCAAGTGC GAACAAGAAC TATAGAAATG TTAAGGATTT TGGGGAATG AGTTTAAAA AGAATAATTT AATCGATGAT  
 GATTCGGAGG CTACTGTGCG CGAATCGGAT TCGTTTTAAA TAGATCTTAC AGTATCACTA CTCATCTCA GTTCGTGTTT TTGTCATTAA  
 TTAATAA  
atg aag gct ctc gtt att ctg ggg ttt ctc tct gtc gct gtc caa ggc aag gtc ttt gag aga tgt gag  
ctt gcc aga act ctg aag aaa ctt gga ctg gac ggc tat aag gga gtc agc ctg gca aac tgg ttg tgt ttg acc  
aaa tgg gaa agc agt tat aac aca aaa gct aca aac gct aac cct aac agt gaa agc act gat tat ggg ata ttt  
cag atc aac agc aaa tgg tgg tgt aat gat ggc aaa acc cct aat gca gtt gac ggc tgt cat gta tcc tgc agc  
gaa tta atg gaa aat gac atc gct aaa gct gta gca agt gca aag cat att gtc agt gag caa ggc att aca gcc  
tgg gtg gca tgg aaa agt cat tgt cga gac cat gac gtc agc agt tac gtt gag ggt tgc acc ctg taa  
 CTCGAGGGGT AGTCAAGATG CATAATAAT AACGGATTGT GTCCGTAATC ACACGTGGTG CGTACGATAA CGCATAGTGT TTTTCCCTCC  
 ACTTAAATCG AAGGTTGTG TCTTGGATCG CGCGGTCAA ATGTATATGG TTCATATACA TCCGCAGGCA CGTAATAAG CGAGGGTTC  
 GGTGCGAGGT CGGCTGTGAA ACTCGAAAAG GTTCCGGAAA AAAAAAGA GAGTGGTAGG TAATAGTGT AATAATAAGA AATAATAATA  
 TAGTGGTAAG AAAGTTTGA AAGTTGAGGA AATTGAGGAT AATGTAAGTG ATGACGAGTC TATCGCGTCA TCGAGTACGT TTTAATCAAT  
 ATGCCTTATA CAATCAACTC TCCGAGCCAA TTTGTTTACT TAAGTTCCGC TTATGCAGAT CCTGTGCAGC TGATCAATCT GTGTACAAAT  
 GCATTGGGTA ACCAGTTTCA ACGCAACAA GCTAGGACAA CAGTCCAACA GCAATTTGCG GATGCCCTGG AACCTGTGCC TAGTATGACA  
 GTGAGATTTT CTGCATCGGA TTTCTATGTG TATAGATATA ATTGACGCT TGATCCGTTG ATCAGCGCGT TATTAAATAG CTTCGATACT  
 AGAAATAGAA TAATAGAGGT TGATAATCAA CCGCACCGA ATACTACTGA AATCGTTAAC GCGACTCAGA GGTAGACGA TCGACTGTA  
 GCTATAAGGG CTTCAATCAA TAATTTGGCT AATGAACCTGG TTGCTGGAAC TGGCATGTT CACTGAAGAC TTAATAATTCA GGTGGCTGA  
 CTTGTCTGGA CCACAACCTC GGCTACTTAG CTATTGTTGT GAGATTTCTT AATATAAGT AATCAAGCAA GCITTTGAGAC TGCTAGTGA  
 TACCAAAATC AGCAGTGGTT GTTCGTCCAC TTAATAATAA CGATTGTCT AATTCAGGG TGGCTGATAC CAAAATCAGC AGTGGTTGT CGTCCACTA  
 TGGTATGGCG TAAACAACG GAAAAGTCG TGAAGACTTA AATTCAGGG TGGCTGATAC CAAAATCAGC AGTGGTTGT CGTCCACTA  
 AAAATAACGA TTGTATATC TGGATCCAAC AGTTAAACCA TGTGATGGTG TATACTGTGG TATGGCGTAA AACACCGGAG AGGTTCCGAT  
 CCTCCCTAA CCGCGGGTAG CGGCCAGGT ACCCGGATGT GTTTTCCGGG CTGATGAGTC CGTGAGGACG AACCTGGCT GCAGGATGC  
 AAGCTTGGCG TAATcatggt catAGTGT TTCTGTGTGA AATTGTTATC CGTCAACAAT TCCACACAAC ATACGAGCCG GAAGCATAA  
 GTGTAAAGCC TGGGGTGCCT AATGAGTGAG CTAACCTACA TTAATTTGGT TGGCTCACT GCGCGCTTTC CAGTCGGGAA ACCTGTCTGT  
 CCAGCTGCAT TAATGAATCG GCCAACGCGC GGGGAGAGCG GGTTTGGGTA TTGGCGCTTC TCGCTCACTG ACTCGCTGCG

FIGURE 2 (sheet 4 of 4)

CTCGGTCGTT CGGCTGCGGC GAGCGGTATC AGTCACTCA AAGCGGTAA TACGGTTATC CACAGAATCA GGGATAACG CAGGAAAGAA  
CATGTGAGCA AAAGGCCAGC AAAAGGCCAG GAACCGTAAA AAGCGCGGT TGCTGGCGTT TTTCCATAGC CTCGCCCCC CTGACGAGCA  
TCACAAAAAT CGACGCTCAA GTACAGAGTG GCGAAACCCG ACAGACTAT AAAGATACCA GGGGTTTCC CCGTGAAGCT CCTCGTGCG  
CTCTCCTGTT CCGACCCCTG CGCTTACCGG ATACCTGTCC GCCTTCTCC CTTGCGGAAG CGTGGCGCT TCTCATAGCT CACGCTGTAG  
GTATCTCAGT TCGGTGTAGG TCGTTGCTC CGGTAAAGCA CGACTTATCG CCACTGGCAG TGTTGTCAG AACCCTCCGT TCAGCCGAC CGGTGCGCT TATCCGGTAA  
CTATCGTCTT GAGTCCAACC GAGTCTTGA AGTTGTTGCC TAACCTACGC TACACTAGAA GGACAGTAT TGGTATCTGC AGCAGAGCA GGTATGTAGG  
CGGTGCTACA GAGTTCTTGA AGTTGTTGCC GCTCTTGATC CCGCAACAA ACCACCGCTG GTAGCGGTGG TTTTCTTGT TGCAGAGCAG AGATACGCG  
CTTCGGAATA AGATCTCAAG AAGATCTCTT GATCTTTTCT AATTAATAAT GAAGTTTTAA ATCAATCTAA AGTATATATG AGTAAACTTG  
CAGAAAAAAT TCAAAAAAGG TCTTCACCTA GATCTTTTCA TACGCGATCT GTCTATTTTC TTTTCTTCTT TCCATCTGAC TCCCGTCTG  
GTCTGACAGT TACCAATGCT TAATCAGTGA GGCACCTATC ATCTGGCCCC AGTGTGCAA TTTTATCCG CTCCATCCAG TCTATTAAAT GTTGCGGGA  
GTAGATAACT ACGATACGGG AAGGCTTACC AGGCGGCGG GCGCAGAAGT GGTCTGCAA TTGCTACAGG CATCGTGGT TCACGCTCGT CGTTTGGTAT  
AGCAATAAAC CAGCCAGCCG CAGTTAATAG TTTGCGCAAC ACATGATCCC CCACTGTTGG CAAAAAAGCG GTTAGCTCCT TCGGTCTCTC  
AGCTTAGAGT AGCTCCGGTT CCAACGATC AAGCGGAGT ATGTTATGG CAGCACTGCA TAATTTCTCTT ACTGTCTG CATCCGTAAG  
GATCGTTGTC AGAAGTAAGT TGGCGGCGT AGTACTCAAC CAAGTCACTC TGAGAAATAG GTATGCGGG ACCGAGTTGC TCTTGCCCG CGTCAATACG  
ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAGAACTTT AAAAGTGCTC ATCATTTGAA AACGTTCTC GGGGCGAAAA CTCTCAAGGA TCTTACCGCT  
GGATAATACC CGCCACATA CGCAACTTT AACCCTCTG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTTCAAGCA GAGCAAAAA  
GTTGAGATCC AGTTGATGT AACCCTCTG AACCCTCTG AAGGCGGACA CGGAAATGTT GAATACTCAT ACTCTTCTCT TTTCAATATT ATTGAAGCAT  
AGGAAGGCAA AATGCGCAA AATGCGCAA AATGCGCAA CATATTTGAA TGTATTTTGA AAAATAAACA AATAGGGGT CCGCGCACAT TTCCCCGAAA  
TTATCAGGT TATTGTCTCA TGAGCGGATA AACCCTAT TATCATGACA TTAACCTATA AAAATAGGG TATCAGCAGG CCTTTCTGTC TCGCGCGTTT  
AGTGCCACCT GACGTCTAAG AACCCTAT TATCATGACA TTAACCTATA AAAATAGGG TATCAGCAGG CCTTTCTGTC TCGCGCGTTT  
CGGTGATGAC GGTGAAAACC TCTGACACAT GCAGTCTCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA GACAAGCCCG  
TCAGGGCGG TCAGGGGGTG TTGGCGGGTG TCGGGGGTG CTTAATATG CCGCATCAGA GCAGATTGTA CTGAGAGTGC ACCATATGCG  
GTGTGAata ccgcacagat gcGTAAAGG AAAATACCG ATCAGGCGCA TTCCGCAATC AGGCTGCGCA ACTGTTGGGA AGGGCGATCG  
GTGCGGCGCT CTTGCTATT ACGCCAGCTG GCGAAAGGG GATGTGCTG AAGCGGATTA AGTTGGGTAA CGCCAGGGTT TTCCCAAGTCA  
CGACGTTGTA AAACGACGGC CAGTGAATTC AAGCTTAATA CGACTCACTA

5' 126K 183K 30K hcp 3'

Replicase subunits SP-E SP-1 SP-2

# Fi3

# 10-20% Tris-Glycine SDS PAGE gel

1. Marker
2. (+) BoLys - 1  $\mu$ g
3. (+) BoLys - 2  $\mu$ g
4. (+) BoLys - 5  $\mu$ g
5. Nb-1 GJ - 2  $\mu$ l
6. Nb-2 GJ - 2  $\mu$ l
7. Nb-3 GJ - 2  $\mu$ l

20 kDa

14 kDa

TMV coat protein

bolys

Fig. 4

# 14% Tris-Glycine SDS-PAGE gel

1. Marker
2. (+) Hen EW lys 5  $\mu$ g
3. (+) BoLys - 1  $\mu$ g
4. (+) Boys - 2  $\mu$ g
5. (+) BoLys - 3.5  $\mu$ g
6. (+) BoLys - 5  $\mu$ g
7. (+) BoLys - 7  $\mu$ g
8. 1051500 IF crude - 1  $\mu$ l
9. 1051500 IF crude - 5  $\mu$ l
10. 1051100 IF crude - 1  $\mu$ l
11. 1051100 IF crude - 5  $\mu$ l
12. Marker 12

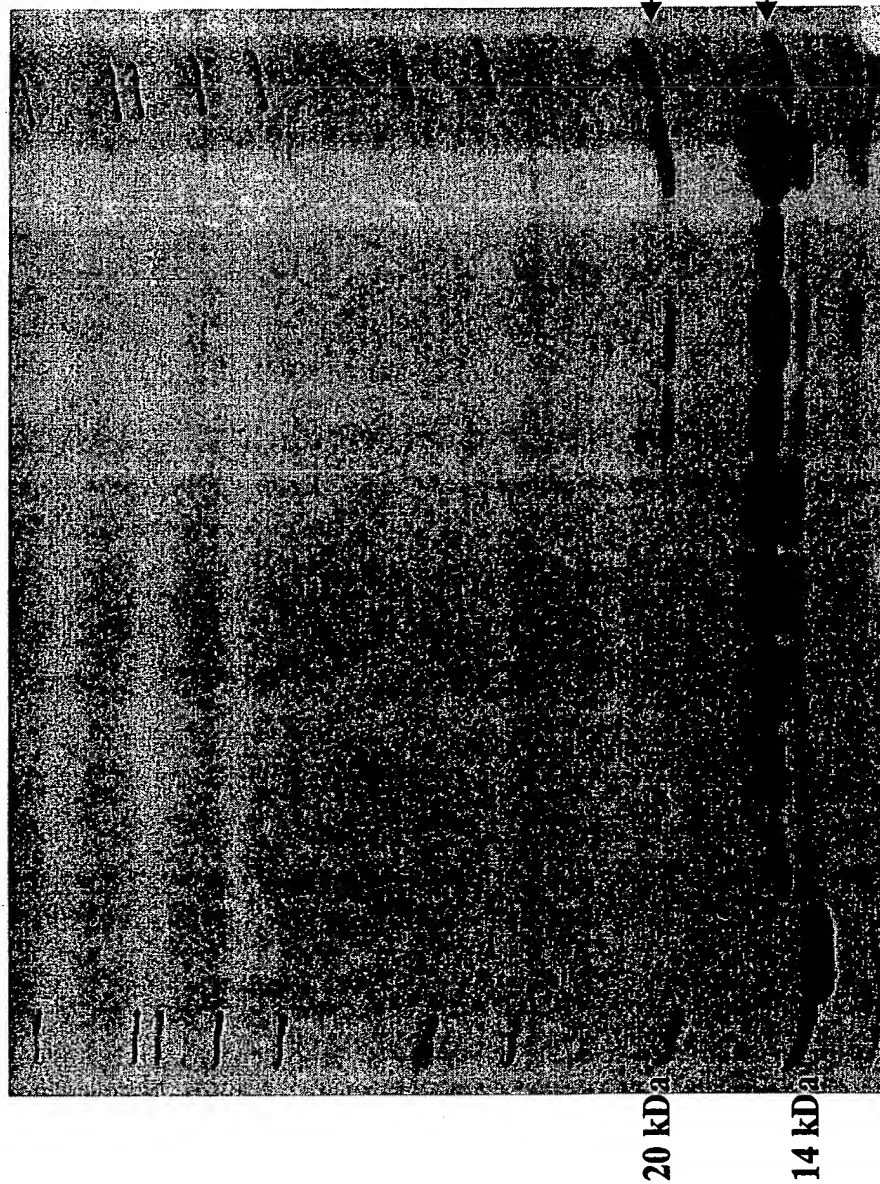


Fig. 5



20250726

Laser : 2350  
Scans Averaged: 62  
Pressure: 1.07e-07  
Low Mass Gate: 1000.0  
Timed Ion Selector: 24.9 OFF  
Negative Ions: OFF  
Collected: 4/3/2000 5:13 PM

Method: HCD-60K  
Mode: Linear  
Accelerating Voltage: 25000  
Grid Voltage: 90.000 %  
Guide Wire Voltage: 0.100 %  
Delay: 300 ON  
Sample: 44

← Bovine Lysozyme in IF  
Minus 18 aa signal peptide

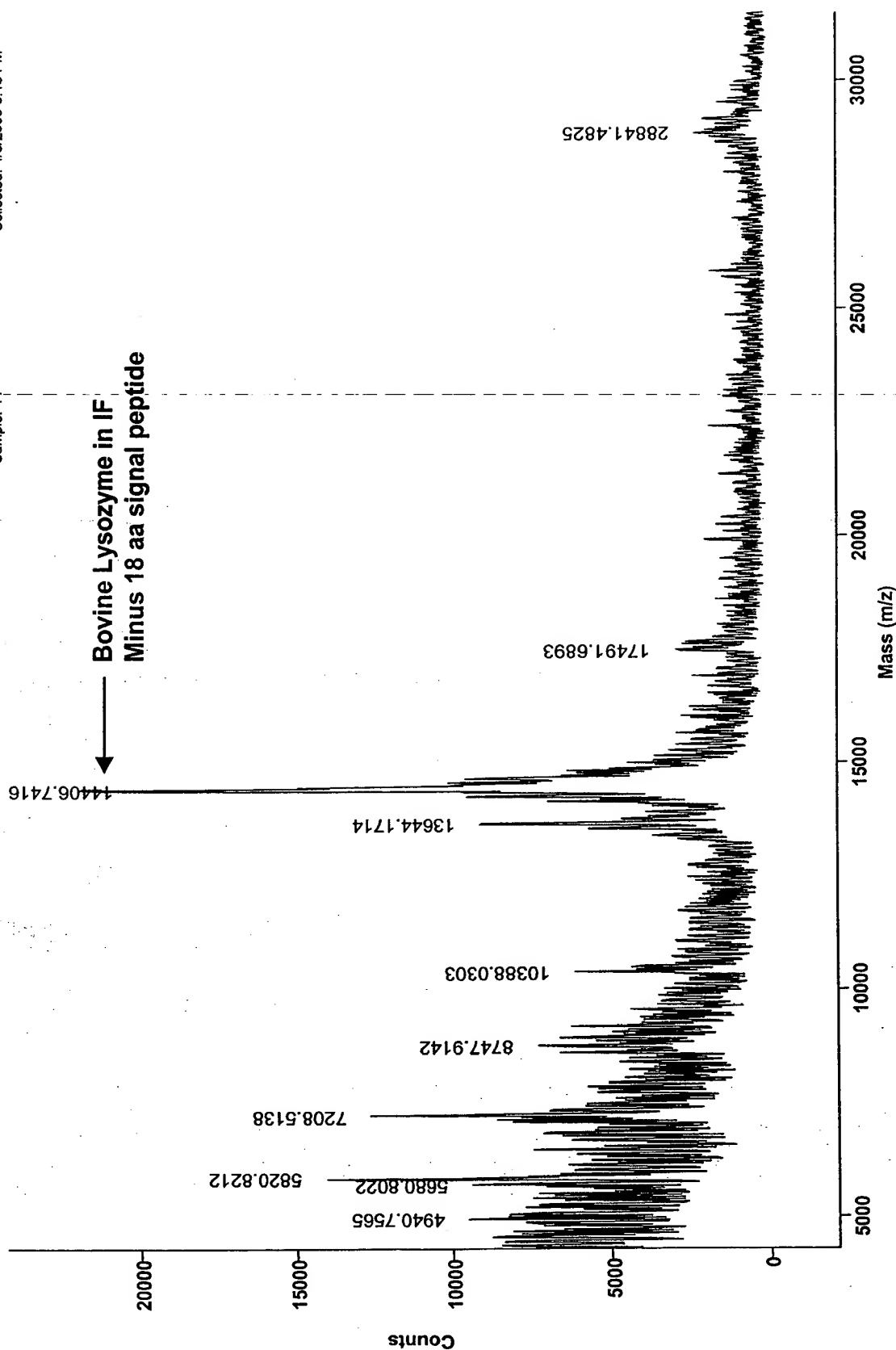


Fig. 6

### 3K vs. Standard (Turbidimetric)

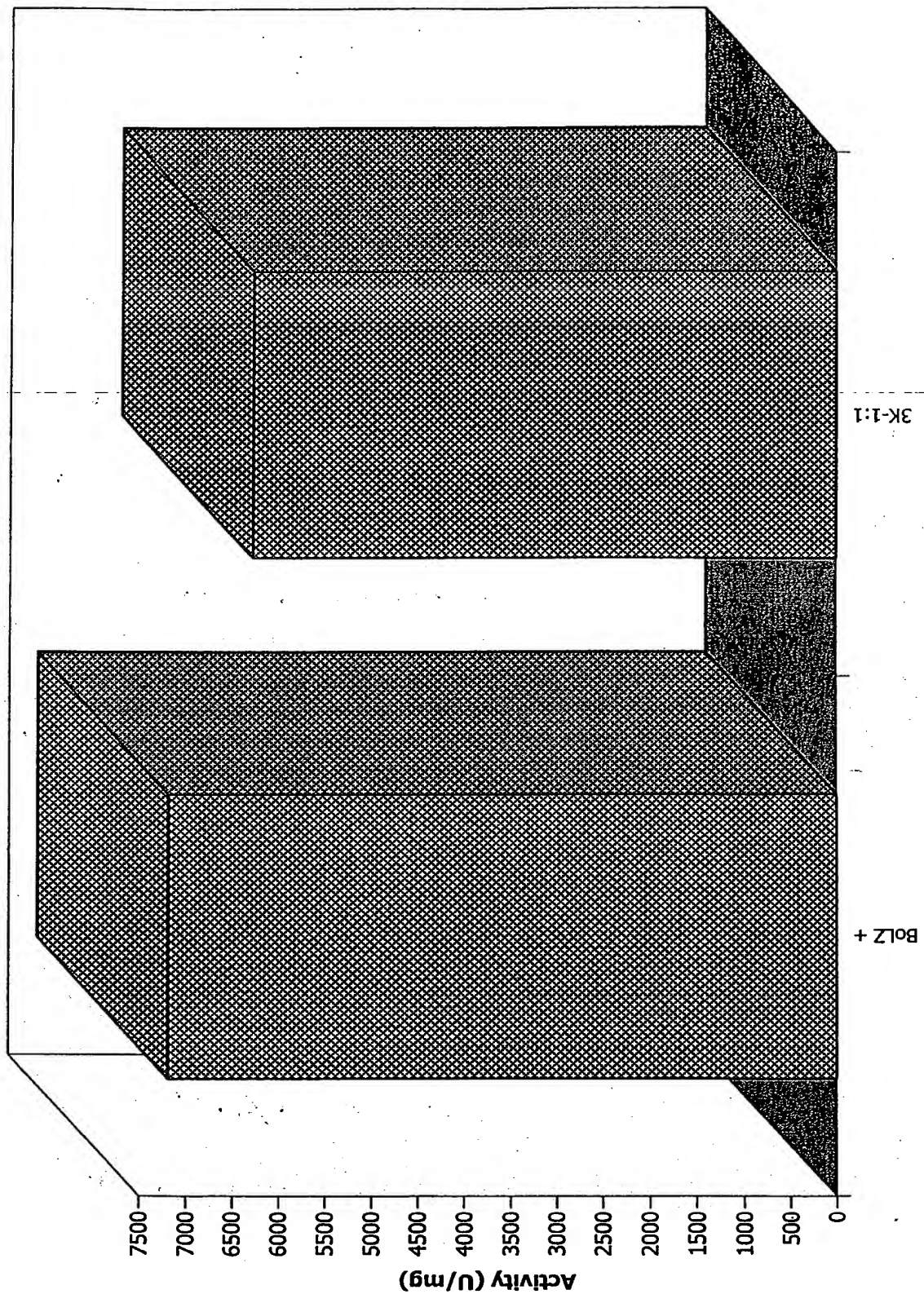
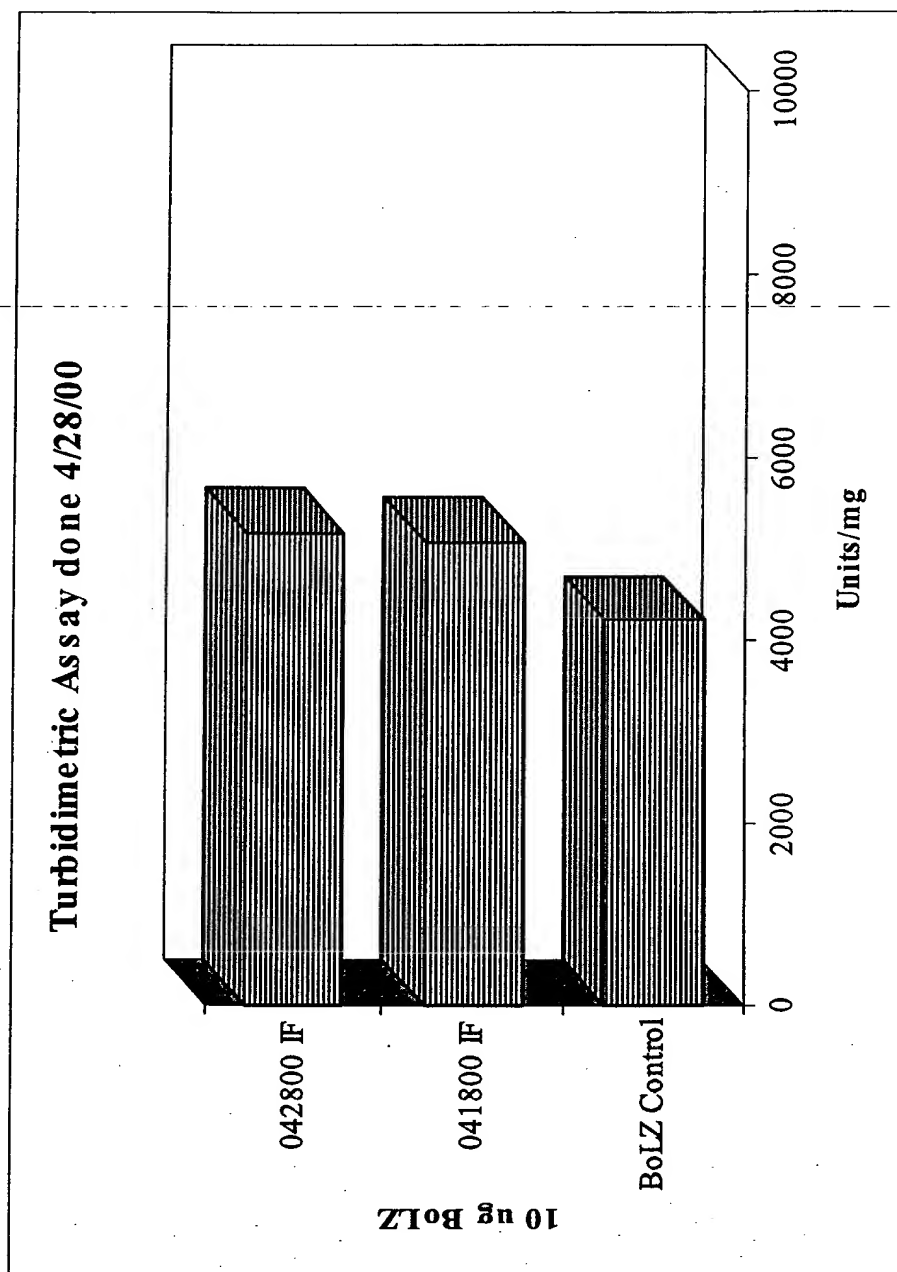
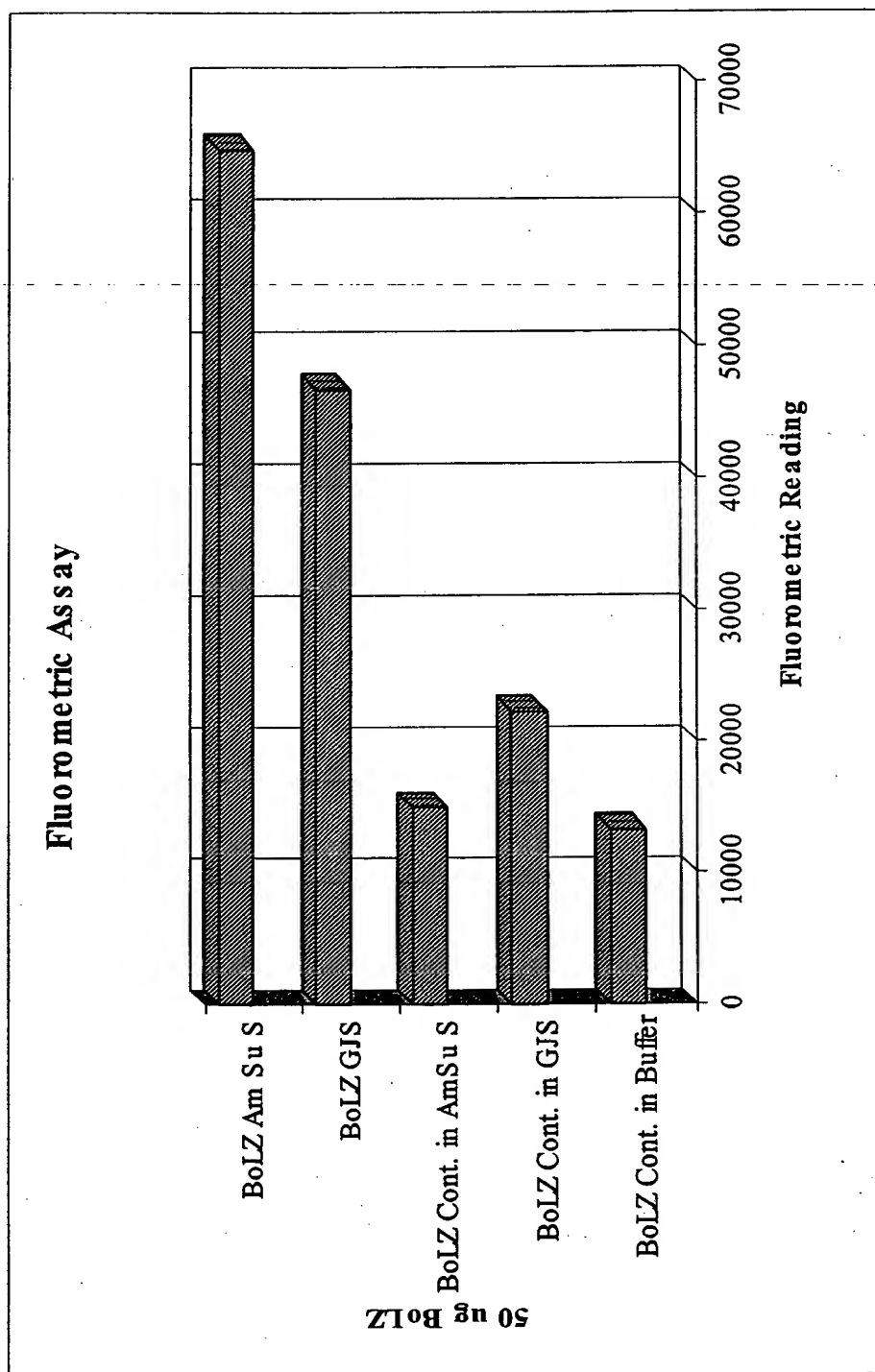


Fig. 7

042800 IF 041800 IF BoLZ Control



**Fig. 8**



**Fig. 9**

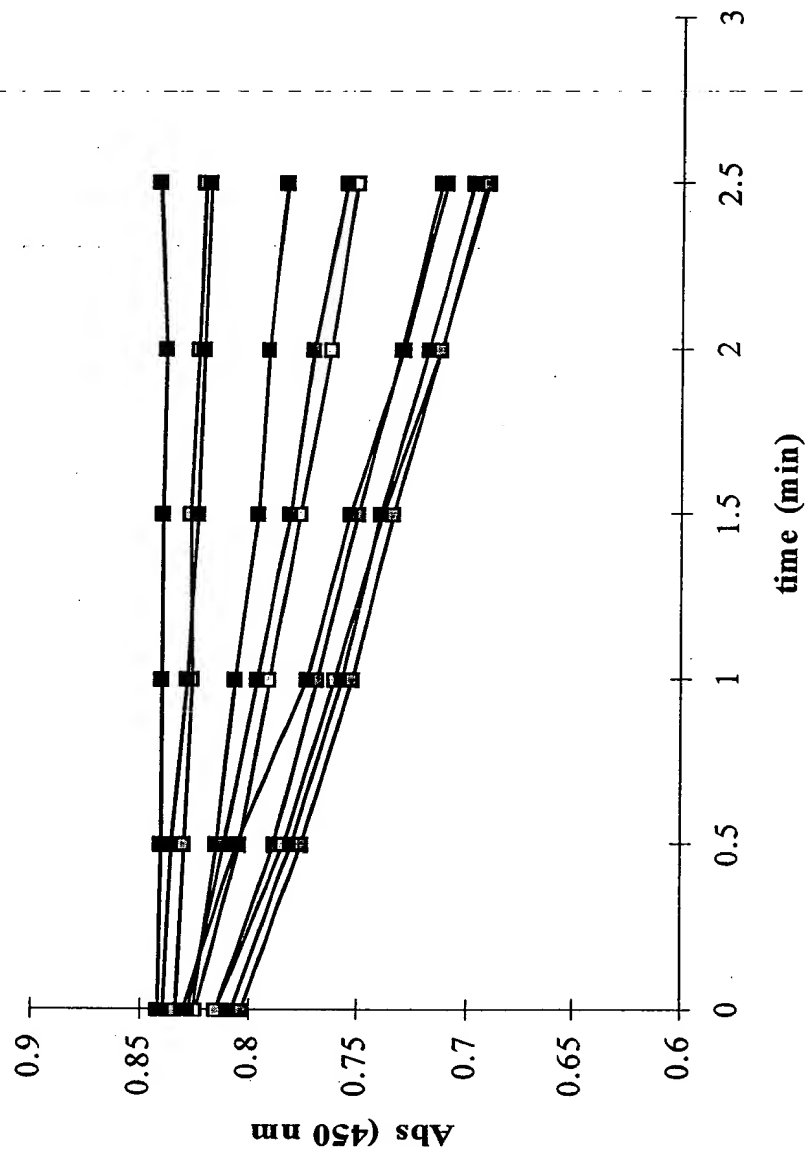


Fig. 10